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FOR

LIBRARY Soil Conservation Service (C. S. Department of Agriculture)

MISSOURI AND ARKANSAS RIVER BASINS

April 1, 193

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by Bureau of Agricultural Engineering of the U. S. Department of Agriculture, in cooperation with departments, other Federal bureaus and local organizations. 1/

to be 84 percent normal. Precipitation in the South Platte River Basin is 66 percent of normal. Seven precipitation stations, 6,000 feet or more in elevation, in the Arkansas River Basin show the precipitation accumulative precipitation for this period in the western part was 6.68 inches or 75 percent of normal; for precipitation stations, 6000 feet or more in elevation, east of the divide in Wyoming show the precipitation the central part of the state the precipitation was 4.10 inches, or 88 percent of normal. Twenty-one Status of precipitation as of October 1 to April 1: For Montana it is reported that the average to be 93 percent of normal.

more than two feet of snow fell during the last half of March. It is expected that the run-off in the North In the Laramie River Basin in Colorado and Wyoming, the snew cover is Good, and the soil is thoroughly At Fox Park Platte will be above normal. Snow cover in the Wedicine Bow range has increased during March. For the Horn, Tongue, Powder and Belle Fourche River drainages there is a marked deficiency in the snow cover. saturated. Streams that were dry last year at this time are now running a good head of water.

accumulated since the last observations were taken. In the Arkansas Valley drainage basin the snow cover The snow cover on the South Platte River drainage basin on April 1, based on the records from snow courses, was 60 percent of the amount at this time last year, but considerably more snow has is 80 percent of what it was last year.

Reservoirs on the South Platte, in the plains area, are all filled and on the tributaries the storage is about normal. Reserveir storage on the North Platte is below normal but in excess of last year. the Arkansas Valley reservoir storage is considerably below normal. Soil moisture conditions in Wyoming have improved during the past month. In the South Platte Valley there is ample moisture in the soil for ploving and for planted crops. Winter wheat is in excellent condition. Conditions in the Arkansas Valley are favorable.

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precipitation stations, 5,000 feet or more in elevation, in the Arkenses Siver Basin about the precipitation for the South Nichtes Her Basin is 50 percent of monals. Freshpitation in the South Nichtes Her Basin is 50 percent of monals. Seven to be 64 percent normals. Freshpitation in the South Nichtes Her Basin is 50 percent of monals. Seven to be 64 percent normals. Freshpitation in the South Nichtes Her Basin is 50 percent of monals for the deviction in the South Nichtes Her Basin is 50 percent of monals for the deviction of the first Heritage and the first Heritage Status of precipitation as of Cotober 1 to April 15 For Montana 1t is reported that the swerage

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Summary of Federal and State Cooperative Snow Surveys

Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station
Issued April 12, 1937. Colo. Expt. Station, Fort Collins, Colo.

								-	
						April	1, Snow	Cover Measurements	nents
Tributary Basins		Location				96	Snow Depth	Average Wa	Water Content
(Primary & Secondary & Snow Courses)	State	Se	Twp.	Range	Elev.	1937 (Inches)	1936 (Inches)		1936 (Inches)
JEFFERSON RIVER									
Camp Creek 2/	Idaho 21 Idaho 22	22 & 27	13N 27N	36E 21E	6200	39.1	27.0	10.8	0.91
MADISON RIVER					- Jake				
Aster Creek 2/ Big Springs 2/	Wyo. Idaho	Lat. 440171, Long. 110037	Long. 1100	374	7700	58.7	*0.78	23.5*	*0.04
Hebgen Dam Lewis Lake Divide 2/ Prenty-one Wile 3/	Mont.		118 Long, 110	3E 1100t011	6550 7900 7150	92.0*	116.0*	200 c	55.0*
West Yellowstone Valley View 2/		34 & 35	138 15N	是是	6500	479.88-	111	13.0	111,
GALLATIN RIVER									
Mystic Lake No. 1 Wystic Lake No. 2 Twenty-one Wile 3/	Mont. Mont.	31	38 118	四月四	6600 7150	28.7	111	6.6	111
MISSOURI RIVER (Between Helena & Great Falls)	Falls)								
Tenmile Creek									
Chessman Reservoir Tenmile Creek, Lower Tenmile Creek Middle	Mont.	222	SN SN SN	E E	6200 6250	20° N	111	6.9	1 1 1
Tenmile Creek, Upper			SN SN	2	8000	148.0	1	13.3	1
*Observations made March 16.	1 16.								

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Range	s• 113°21'	14年 8年	11.0W	110W 88W 101W 88W 100W 100W 86W	85m
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Tributary Basins (Primary & Secondary & Secondary	MARIAS RIVER Warias Pass YELLOWSTONE RIVER Headwaters of Yellowstone River	Cooke City Crevice Mountain No. 1 No. 2 No. 2	Shoshone River Brooks Lake Nc. 2 2/ Big Horn River	Brooks Lake No. 2 Ranger Creek Roaring Fork Shell Creek R. Sta. Whorten Meadow Tensleep Ranger Station Provder River	Red Fork

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	Tributary Basins	(Primary & Secondary & Snow Courses)	NORTH PLATTE RIVER	Headwaters North Platte	Big Creek Lake	Bottle Greek	Columnine Loage	Month Bonnett Creek	Old Battle	Park View	Ryan Park	Webber Springs	West Portal Greeley-	Poudre Tunnel	Cameron Pass 3/	Control of Court of Court	DWGG OWGUET TITVET	Grannier Meadows	Laramie River	Brooklyn Lake Fox Park Hairpin Turn	Libby Lodge Pole Mountain 2/

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Tributery Basins (Frimary & Secondary & Snow Courses)	SOUTH PLATTE RIVER	Big South Cameron Pass 3/ Chambers Lake Chambers Lake Deadman Hill East Portal Moffat Tunnel Fairplay Hidden Valley Hoosier Pass Jefferson Greek Col Loveland Pass Pole Mountain University Camp Col	Wild Basin ARKANSAS RIVER	Four Wile Park Fremont Pass 2/ LaVeta Pass 2/ Marshall Greek 3/ Poncha Greek Tennessee Pass Twin Lakes Tunnel Whiskey Greek

tions: Forest Service, National Park Service, Geological Survey, Bureau of Reclamation; and Montana Agricultural Experiment Station. This work is otherwise conducted cooperatively with the War Department, the State 1/ The snow measurements are made principally by field personnel of the following Federal Government organiza-Agricultural Experiment Stations, and various municipalities, irrigation associations, power companies, and Engineers of Wyoming and Colorado, U. S. Weather Bureau, U. S. Geological Survey, Montana and Colorado others.

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